





#### HELLO!



Pizza is one of the most popular and widely consumed fast foods globally, known for its versatility and appeal across different cultures and demographics. Understanding pizza sales involves analyzing various factors such as customer preferences, seasonal trends, pricing strategies, and regional influences.

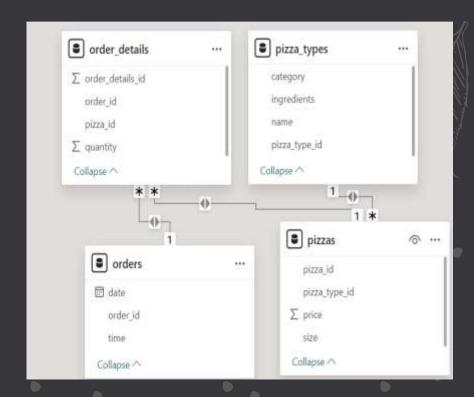






#### Dataset Schema

The pizza sales dataset provides insights into the performance of a pizza business, capturing details like order dates, customer preferences, sales amount, and popular menu items. It helps analyze trends, such as peak sales periods, best-selling pizzas, and regional demand, enabling businesses to make data-driven decisions and optimize their operations.







#### Basic:

- 1. Retrieve the total number of orders placed.
- 2. Calculate the total revenue generated from pizza sales.
- 3. Identify the highest-priced pizza.
- 4. Identify the most common pizza size ordered.
- 5. List the top 5 most ordered pizza types along with their quantities.

#### Intermediate:

- 1. Join the necessary tables to find the total quantity of each pizza category ordered.
- 2. Determine the distribution of orders by hour of the day.
- 3. Join relevant tables to find the category-wise distribution of pizzas.
- 4. Group the orders by date and calculate the average number of pizzas ordered per day.
- 5. Determine the top 3 most ordered pizza types based on revenue.

#### Advanced:

- 1. Calculate the percentage contribution of each pizza type to total revenue.
- 2. Analyze the cumulative revenue generated over time.
- 3. Determine the top 3 most ordered pizza types based on revenue for each pizza category.



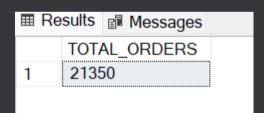


#### Retrieve the total number of orders placed.





```
SELECT
       COUNT(order_id) AS TOTAL_ORDERS
FROM
     orders$;
```







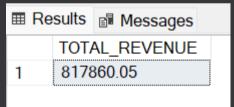


```
ROUND(SUM(pizzas$.price*order_details$.quantity),
2) AS TOTAL_REVENUE

FROM

pizzas$
INNER JOIN

order_details$ ON order_details$.pizza_id=pizzas$.pizza_id
```











```
TOP 1 pizza_types$.name AS PIZZA_NAME,MAX(price) AS HIGHEST_PRICED_PIZZA
FROM

pizzas$

INNER JOIN

pizza_types$ ON pizza_types$.pizza_type_id=pizzas$.pizza_type_id

GROUP BY pizza_types$.name

ORDER BY HIGHEST_PRICED_PIZZA_DESC
```



#### Identify the most common pizza size ordered.

```
TOP 1 SIZE,

COUNT(order_details$.order_id) AS MOST_COMMON_PIZZA_SIZE_ORDERED

FROM

pizzas$

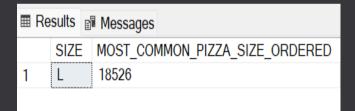
INNER JOIN

order_details$ ON

pizzas$.pizza_id=order_details$.pizza_id

GROUP BY size

ORDER BY MOST_COMMON_PIZZA_SIZE_ORDERED DESC
```



## List the top 5 most ordered pizza types along with their quantities.

```
TOP 5 pizza_types$.name AS PIZZA_NAME,
SUM(order_details$.quantity) AS QUANTITY

FROM

pizza_types$
INNER JOIN
pizzas$ ON pizza_types$.pizza_type_id=pizzas$.pizza_type_id
INNER JOIN
order_details$ ON order_details$.pizza_id=pizzas$.pizza_id

GROUP BY pizza_types$.name
ORDER BY QUANTITY DESC
```

⊞ Re	sults Messages	
	PIZZA_NAME	QUANTITY
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371

# Join the necessary tables to find the total quantity of each pizza category ordered.

```
PSELECT

pizza_types$.category,

SUM(order_details$.quantity) AS TOTAL_QUANTITY

FROM

pizza_types$

INNER JOIN

pizzas$ ON pizza_types$.pizza_type_id=pizzas$.pizza_type_id

INNER JOIN

order_details$ ON order_details$.pizza_id=pizzas$.pizza_id

GROUP BY pizza_types$.category

ORDER BY TOTAL_QUANTITY
```

■ Results		₽ Me	essages	
	cate	gory	TOTAL_	_QUANTITY
1	Chic	ken	11050	
2	Veg	gie	11649	
3	Supreme		11987	
4	Clas	sic	14888	

### Determine the distribution of orders by hour of the day.

```
DATEPART(HOUR, time) as hour,
count(order_id) as order_count
FROM
orders$
group by DATEPART(HOUR, time)
order by hour
```

⊞ Re	sults	Messages
	hour	order_count
1	9	1
2	10	8
3	11	1231
4	12	2520
5	13	2455
6	14	1472
7	15	1468
8	16	1920
9	17	2336
10	18	2399
11	19	2009
12	20	1642
13	21	1198
14	22	663
15	23	28





### Join relevant tables to find the category-wise distribution of pizzas.

```
category,

COUNT(name) as distribution_of_pizzas

from pizza_types$

group by category
```

■ Results ■ Me		ell Me	essages
	cate	gory	distribution_of_pizzas
1	Chic	ken	6
2	Clas	sic	8
3	Supr	eme	9
4	Veg	gie	9

## Group the orders by date and calculate the average number of pizzas ordered per day.

```
■ Results Messages

avg_orders_per_day

1 138
```

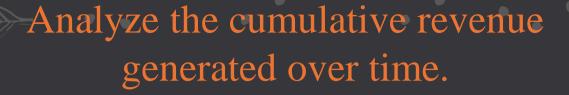
### Determine the top 3 most ordered pizza types based on revenue.

⊞ Re	sults	Messages	
	pizza	_name	total_revenue
1	The T	Thai Chicken Pizza	43434.25
2	The E	Barbecue Chicken	Pizza 42768
3	The C	California Chicken I	Pizza 41409.5

# Calculate the percentage contribution of each pizza type to total revenue.

```
select
     pizza_types$.category,
      round(
            (SUM(order details * quantity * pizzas * price)/
                   (SELECT
                              ROUND(SUM(pizzas$.price*order_details$.quantity),2) AS TOTAL_REVENUE
                    FROM
                         pizzas$
                         INNER JOIN
                          order details$
                          ON order_details$.pizza_id=pizzas$.pizza_id))*100,2) as percentage_contribution
                     pizza types$
                     inner join
                     pizzas$ on pizza_types$.pizza_type_id=pizzas$.pizza_type_id
                     inner join
                     order_details$ on order_details$.pizza_id=pizzas$.pizza_id
group by pizza types$ category
```

Results		all Me	essages
	cate	gory	percentage_contribution
1	Chic	ken	23.96
2	Sup	reme	25.46
3	Clas	sic	26.91
4	Veg	gie	23.68



■ Results ■ Messages			
	date1	cumulative_revenue	
1	2015/01/01	2713.85	
2	2015/01/02	5445.75	
3	2015/01/03	8108.15	
4	2015/01/04	9863.6	
5	2015/01/05	11929.55	
6	2015/01/06	14358.5	
7	2015/01/07	16560.7	
8	2015/01/08	19399.05	

## Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
select
        Name revenue
from
       (select Name, category, revenue,
               RANK() over(partition by category order by revenue desc) as rank
       from
            (select pizza_types$.name as Name,
                    pizza_types$.category as category,
                    SUM(order_details$.quantity*pizzas$.price) as revenue
            from
                   pizza types$
                    inner join
                    pizzas$ on pizza types$ pizza type id=pizzas$ pizza type id
                      inner join
                    order_details$ on order_details$ pizza_id=pizzas$ pizza_id
                group by pizza_types$.category.pizza_types$.name
                  as a
where rank <= 3:
```

■ Results					
	Name	revenue			
1	The Thai Chicken Pizza	43434.25			
2	The Barbecue Chicke	42768			
3	The California Chicke	41409.5			
4	The Classic Deluxe Pi	38180.5			
5	The Hawaiian Pizza	32273.25			
6	The Pepperoni Pizza	30161.75			
7	The Spicy Italian Pizza	34831.25			
8	The Italian Supreme	33476.75			
9	The Sicilian Pizza	30940.5			
10	The Four Cheese Pizza	32265			
11	The Mexicana Pizza	26780.75			
12	The Five Cheese Pizza	26066.5			